

## EAST Search History

| Ref # | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---|---|------------------|---------|------------------|
| L7    | perpendicular near5 recording and write;adj shield  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/04/01 11:42 |
| L8    | "20030235014"   "4253127"  <br>"4317148"   "4423450"   "4644432"  <br>"4656546"   "4672493"   "4748525"  <br>"5041922"   "5075956"   "5111352"  <br>"5176965"   "5431969"   "5680283"  <br>"5801910"   "5830590"   "5843565"  <br>"6101067"   "6330122"   "6337784"  <br>"6407891"   "6618227"   "RE33949").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2008/04/01 11:46 |
| L9    | perpendicular near5 recording and write adj shield and multilayered adj structure.clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/04/01 11:48 |
| S1    | "4873599".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/09/06 09:48 |
| S2    | "5311387".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/09/06 09:49 |
| S3    | "5168409".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/09/06 10:11 |
| S4    | "20020036863".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/09/06 09:51 |
| S5    | "20020036871".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/09/06 09:52 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S6  | 2    | "20030026039".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 09:52 |
| S7  | 0    | 360/113.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 10:11 |
| S8  | 130  | "360"/\$.ccls. and perpendicular adj<br>record\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 10:12 |
| S9  | 1403 | "360"/\$.ccls. and (perpendicular adj<br>record\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 10:12 |
| S10 | 387  | "360"/\$.ccls. and (perpendicular adj<br>record\$3) and write and pole and<br>shield   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/27 11:51 |
| S11 | 378  | "360"/\$.ccls. and (perpendicular adj<br>record\$3) and write and pole and<br>shield and layer and magnetic  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 10:14 |
| S12 | 10   | ("20020039254"   "20020171975"  <br>"4656546"   "5920449"   "6636390"  <br>"6710972"   "6710973"   "6771462"  <br>"6775099"   "6795277").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 10:47 |
| S13 | 22   | ("20030235014"   "4253127"  <br>"4317148"   "4423450"   "4644432"  <br>"4656546"   "4672493"   "4748525"  <br>"5041922"   "5075956"   "5111352"  <br>"5176965"   "5431969"   "5680283"  <br>"5801910"   "5830590"   "5843565"  <br>"6101067"   "6330122"   "6337784"  <br>"6407891"   "6618227"   "RE33949").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:28 |
| S14 | 2    | 360/126.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:28 |
| S15 | 28   | 360/126.ccls. and write adj shield   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:30 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S16 | 770 | 360/126.ccls. and write and shield   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:32 |
| S17 | 202 | 360/126.ccls. and write near5 shield   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:32 |
| S18 | 0   | 360/126.ccls. and write near5 shield<br>and auxillary  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:33 |
| S19 | 202 | 360/126.ccls. and write near5 shield<br>and magnetic   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/09/06 11:33 |
| S20 | 2   | "4656546".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 14:10 |
| S21 | 2   | "5311387".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 14:12 |
| S22 | 2   | "4873599".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/06 14:13 |
| S23 | 2   | ("20020071208"   "20040100737"  <br>"20050068671"   "4253127"  <br>"4317148"   "4423450"   "4644432"  <br>"4656546"   "4672493"   "4748525"  <br>"5041922"   "5075956"   "5111352"  <br>"5176965"   "5431969"   "5680283"  <br>"5801910"   "5830590"   "5843565"  <br>"6667848"   "6842313"   "RE33949").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/06/27 10:44 |
| S24 |     | "6697221".pn.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/06/27 10:44 |
| S25 | 49  | "360"/\$.ccls. and (perpendicular adj<br>record\$3) and write adj shield   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/27 11:52 |